

**APPENDIX D-6**  
**Preparation Procedure for Exchangeable Al: Method ASA 9-4.2**

## **Exchangeable Aluminum by One Normal Potassium Chloride Extraction**

### **ASA 9-4.2**

Reagents: 1N KCl - Dissolve 74.0 grams potassium chloride in about 800 ml of deionized water. Dilute to 1 liter.

#### Procedure:

1. Weigh 5 grams soil into a 250 ml centrifuge tube.
2. Add 50 ml 1N KCl to each sample.
3. Shake for 30 minutes at 180/min setting.
4. Centrifuge for 5 minutes at 1500 rpm.
5. Filter through Whatman 42 filter paper into a 50ml Erlenmeyer flask.
6. Submit the sample for aluminum analysis by ICP.

#### References:

Can. J. Soil Sci. 70:263-275

“Exchangeable Acidity, Potassium Chloride Method,” Section 9-4.2 in *Methods of Soil Analysis, Part 2, Chemical and Microbiological Properties*, Second Edition, A. L. Page Editor, American Society of Agronomy, Inc. 1982